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Executive Registry

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ORD-3594-68

13 JUN 1968

MEMORANDUM FOR: Deputy Director for Science & Technology

SUBJECT: Request for Approval to Change the IPRD
Digital Computer Configuration from an
IBM 360/40H to an IBM 360/50I System

1. Approval is requested to change the digital computer configuration in the IPRD from an IBM 360/40H to an IBM 360/50I system.
2. It is proposed that this change be accomplished with a minimum expenditure within budgeted funds for FY69 and with no constructional changes in the IPRD laboratory area.
3. The requested change is desired in order to accomplish the implementation of a secure interactive time-sharing computer system with multiple remote terminals for purposes of systematic testing and the further development of security control procedures. The system will include provisions for first-order security control of multiple files, programs, users and remote terminals at various security classification levels in a time-sharing mode. The system is to be operational for experimental testing within a 12-month period.
4. It is recommended that the proposed change is desirable and should be made at this time for the following reasons:
 - a. New system design and software technology make a first-order secure interactive system achievable now.
 - b. CIA has made major contributions in arriving at the present design level for computer security systems. ORD, with the support of CIA security and

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downgrading and
declassification

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to an IBM 360/50I System

computer services staff, has provided key inputs to the DOD Computer Security Task Team which is at the focus of current design effort. CIA should take initiative and all possible steps to proceed with implementation in this critically important area.

c. CIA has made a commitment to use and apply third-generation computer technology with multi-processing under time-sharing. If goals are to be realized in this area, effective security control is a most essential requirement. The action requested in this memorandum is a major element in the developments needed to achieve security control.

d. The requested change will make the IPRD digital system similar to the other IBM 360/50 systems which are now in operation in OCS, CRS, and DD/P. Thus, the transition from experimental status to operational usage will be facilitated.

e. Implementation and testing of a secure interactive computer system will give CIA key systems design data relating to systems problems and a community-wide intelligence system.

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f. The IPRD is the appropriate experimental environment to achieve early implementation for a test operation.

g. Other available agency computer facilities are not suited for the development effort required because of compatibility problems with existing software and the need for extensive evaluation and step-wise redesign before operational use.

h. Although much of the present IPRD digital system can be used, additions of a large CPU and a drum memory are essential if the central system is to serve as a sufficient system base for required software and for addition of high-speed mass memory and encryption devices in later phases.

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i. No large amount of additional funding is
required at this time in order to achieve a major
step forward. Funding requirements will be met
by reprogramming and curtailing of other Research
and Development tasks if required.

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[Redacted Signature]

Robert M. Chapman
Director of Research & Development

CONCURRENCE:

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[Redacted Signature]

Director/OCS

13 JUN 1968

CONCURRENCE:

~~APPROVAL:~~

[Redacted Signature]

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Chief, Information Pro-
cessing Staff, O/PPB

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[Redacted Signature]

Deputy Director
for
Science & Technology

APPROVAL:

[Redacted Signature]

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Director/PPB

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Executive Director-Comptroller

20 June 68

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